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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Applica	tion No.	Applicant(s)		
Office Action Comments	10/697,	208	POMPEI, FRANK JOSEPH		
Office Action Summary	Examino	er	Art Unit		
	DISLER	PAUL	2614		
The MAILING DATE of this comm Period for Reply	unication appears on t	he cover sheet with the c	correspondence ac	idress	
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this co - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for reaching and the period for reaching the period for re	MAILING DATE OF Tons of 37 CFR 1.136(a). In no emmunication. In statutory period will apply and ply will, by statute, cause the apples after the mailing date of this empty.	THIS COMMUNICATION event, however, may a reply be tir will expire SIX (6) MONTHS from oplication to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).		
Status					
1) Responsive to communication(s)	iled on 08 December	2008			
2a) This action is FINAL .	2b) ☐ This action is				
3) Since this application is in condition	/ —		osecution as to the	e merits is	
closed in accordance with the pra	•			o monto to	
olecca in accordance with the pra	moo andor Ex parto d	(day)0, 1000 0. D . 11, 10	00 0.0. 210.		
Disposition of Claims					
4) Claim(s) <u>1-11,13,15-32,34,36,37,</u>	<u>39,42 <i>and 44</i></u> is/are pe	nding in the application			
4a) Of the above claim(s) is	/are withdrawn from c	onsideration.			
5) Claim(s) is/are allowed.					
6) Claim(s) <u>-11,13,15-32,34,36-37,3</u>	9,42,44 is/are rejected				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to rest		requirement.			
Application Papers		·			
<u> </u>	tha Crandinan				
9) The specification is objected to by			F.,,,,,,		
10) The drawing(s) filed on is/a					
Applicant may not request that any ob					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected	to by the Examiner. N	Note the attached Office	Action or form P	ГО-152.	
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a clai a) All b) Some col None of 1. Certified copies of the priori 2. Certified copies of the priori 3. Copies of the certified copie application from the Interna * See the attached detailed Office ac	ty documents have be ty documents have be s of the priority docun tional Bureau (PCT Ri	en received. en received in Applicati nents have been receive ule 17.2(a)).	ion No ed in this National	Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	ate		

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DETAILED ACTION

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Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1, 22 are rejected on the ground of nonstatutory obviousness-type double

patenting as being unpatentable over claims 10, 14 of U.S. Patent No. (US 7,391,872).

(US 10,697,208).	(US 7,391,872).		
1: (previously presented) A system, comprising:	1. A parametric audio system for generating at least one airborne		
an electronic entertainment system including at least one source of audio signals, the audio signals corresponding	audio beam, comprising: at least one audio		
to at least one audio channel; and a directed acoustic sound system	signal source configured to provide at		
	least one audio signal, <u>a modulator</u>		

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including: a modulated signal generator	configured to receive the pre-
configured to generate an ultrasonic	distorted signal and to convert the
carrier signal modulated with at least	pre-distorted
one of the audio signals;	
a driver amplifier configured to amplify	<pre>signal into ultrasonic frequencies;</pre>
the modulated ultrasonic carrier signal;	and an acoustic transducer array
and	including
	plurality of acoustic transducers,
at least one directional loudspeaker,	1
the directional loudspeaker including at	the array being configured to
least one acoustic transducer configured	receive the
to receive the modulated ultrasonic	converted signal and to project the
carrier signal amplified by the driver	converted signal through the air
amplifier, and to project a sound beam	along a
representing the modulated ultrasonic	1 —— -
carrier signal through a propagation	selected path, thereby inverting
medium along a pre-selected path to	distortion in the projected signal
	and
reproduce the at least one audio signal	1
along at least a portion of the path	regenerating the audio signal along
	at least a portion of the selected
	path.
	Pa sir.
22. (previously presented) A method of	
reproducing audio signals, comprising	
the steps of	
providing at least one audio signal by	
at least one audio source <u>included in an</u>	10. The parametric audio system of
electronic entertainment system, the at	claim 1 further including at least
least one audio signal corresponding to	1
at least one audio channel;	<u>one</u>
generating an ultrasonic carrier signal	driver amplifier coupled between the
	modulator and the acoustic
modulated with the at least one audio	
signal by a modulated signal generator	transducer
included in a directed acoustic sound	array and configured to receive the
system;	converted signal, wherein the
amplifying the modulated ultrasonic	converted
carrier signal by a driver amplifier	
included in the directed acoustic sound	signal is an undivided signal,
	wherein the driver amplifier is
system;	further
receiving, by at least one directional	configured to generate an amplified
loudspeaker included in the directed	
acoustic sound system, the modulated	signal representative of the
ultrasonic carrier signal amplified by	undivided
the driver amplifier , the at least one	converted signal, and a matching
directional loudspeaker including at	filter configured to compensate for
least one acoustic transducer; and	1
projecting, by the at least one	a
projecting, by the at reast one	frequency response of the
directional loudspeaker, a sound beam	combination of the acoustic
representing the modulated ultrasonic	
carrier signal through a propagation	transducer array and the
medium along a pre-selected path to	driver amplifier.
reproduce the at least one audio signal	
along at least a portion of the path	
,	1.4 mbs manager mis and a section of
	14. The parametric audio system of
	claim 1 further including at least
1	one
1	driver amplifier configured to
	receive the modulated carrier signal
1	and to
	generate an amplified signal
	representative of the modulated
1	
	carrier signal,

Re claims 1, 22 Pompei (US 7,391,872) teach everything but differ in that the claim of instant application is simply a wording variation of the Patented claim (for example, electronic entertainment system with source, and directional loudspeakers as in audio source and parametric).

3. Claims 36, 41are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 10, 14 of U.S. Patent No. (US 7,391,872).

Re claims 36, 41 Pompei (US 7,391,872) teach everything but differ in that the claim of instant application is simply a wording variation of the Patented claim (for example, electronic entertainment system with source, and directional loudspeakers as in audio

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source and parametric) and further while, Pompei fail to disclose of the system comprising a telephone system, but official notice is taken having the system comprising a telephone system is well known in the art. Thus, it would have been obvious for one of the ordinary skill in the art to have modified Pompei with the system comprising a telephone system for enabling the users to communicate via two-way voice enable device.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-3,8-9,18-19,22-24,29-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Pompei ("US 2001/0007591 A1").

Re claim 1, Pompei discloses a system for reproducing audio signals, comprising: an electronic entertainment system including at least one source of audio signals, the audio signals corresponding to at least one audio channel ("fig.1/(101-102);page 2[0022] line 11-12; fig.1,5; par[0006,0040]-inherently such audio sources is an electronic

entertainment system respective audio signal generated"); and directed acoustic sound system including: a modulated signal generator configured to generate an ultrasonic carrier signal modulated with at least one of the audio signals ("fig.1(112,114); page 2[0022-0024] line 7-9; par [0023,0035; 0004]"); a driver amplifier configured to amplify the modulated ultrasonic carrier signal ("fig.1/(118);page 2[0023] line 7-10"); and at least one directional loudspeaker, the directional loudspeaker including at least one acoustic transducer configured to receive the modulated ultrasonic carrier signal amplified by the driver amplifier, and to project a sound beam representing the modulated ultrasonic carrier signal through a propagation medium along a pre-selected path to reproduce the at least one audio signal along at least a portion of the path ("page 2[0023] line 11-14 and page 3[0033] line 13-17 and page 4[0039] line 7-17").

Re claim 2, the system of claim 1 wherein the audio signals correspond to a plurality of audio channels ("fig.1-multiple channel (102-104) generated plurality of audio signals; page 2[0022] line 11-12"), wherein the at least one directional loudspeaker comprises a plurality of directional loudspeakers,

and wherein a separate audio channel is provided for each directional loudspeaker("fig.21;page2[0025]").

Re claim 3, the system of claim 1 wherein the audio signals correspond to a plurality of audio channels, and wherein the modulated signal generator is configured to combine the plurality of audio channels and to generate the ultrasonic carrier signal modulated with the combined audio channels ("fig.1/(110-114);page 2[0022] line 13-27").

Re claim 8, the system of claim 1 wherein the acoustic transducer is selected from the group consisting of a piezoelectric transducer, an electrostatic transducer, a PVDF film transducer, and an electrostrictive film transducer ("page 1[0004] line 11-121 page 2[0025] line 12").

Re claim 9, the system of claim 1 further including a delay circuit configured to apply a relative phase shift across a plurality of frequencies of the modulated ultrasonic carrier signal to steer, focus, or shape the sound beam projected by the directional loudspeaker("fig.1/(120);page 2[0023] line 10-12").

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Re claim 18, the system of claim 1 further including a fan configured to cool the system("fig.1/130; page 5[0044] line 4-7").

Re claim 19, the system of claim 18 wherein the fan is activated automatically when a system temperature exceeds a predetermined level ("page 5[0044] line 7-10-desired atmostpheric conditions is maintained").

Re claims 22-24, 29-30 with respect to a method have been analyzed and rejected with respect to claim 1-3, 8-9 respectively.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 5-7, 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pompei ("US2001/0007591 A1") and further in view of Hirayanagi al.("US 6,445,804 B1").

Re claim 5, the system of claim 1 with the directional loudspeaker, wherein the directional loudspeaker is a parametric array; wherein the system further includes a parametric array processor configured to control the parametric array (fig.1 (118,122); page 4[0038] line 10-16). However Pompei fail to disclose the system further including at least one sensor configured to detect a distance from the directional loudspeaker to a user of the system, wherein the parametric processor is configured to allow at least one parameter therefore to be adjusted based the detected distance from the directional loudspeaker to the user of the system. But, Hirayanagi et al. disclosed of a similar system wherein sound system wherein the sensor configured to detect a distance from the directional loudspeaker to a user of the system or to detect a position of the user relative to the system, wherein the parametric processor is configured to allow at least one parameter therefore to be adjusted based upon one or more of the detected distance from the directional loudspeaker to the user of the system, and the detected position of the user relative to the

system (fig.1 (4); fig.2; col.3 line 50-60; col.5 line 1530/adjustment of speaker control based on distance position).
Thus, taking the combined teaching of Pompei and Hirayanagi et
al. as a whole, it would have been obvious for one of the
ordinary skill in the art at the time of the invention to have
incorporated the limitation wherein sound system wherein the
sensor configured to detect a distance from the directional
loudspeaker to a user of the system or to detect a position of
the user relative to the system, wherein the parametric
processor is configured to allow at least one parameter
therefore to be adjusted based upon one or more of the detected
distance from the directional loudspeaker to the user of the
system, and the detected position of the user relative to the
system for the purpose allowing the user to hear optimal high
directional sound with listener movement.

Re claim 6, the combined teaching of Pompei and Hirayanagi et al. as a whole, teach the system of claim 5, wherein the modulated signal generator is configured to generate an ultrasonic signal having characteristics based at least in part on the detected distance to the system user ("Pompei, fig.1(112,114)").

Re claim 7, the system of claim 5 wherein the sensor comprises a device selected from the group consisting of an optical ranging device, an acoustic ranging device, and an infrared ranging device ("fig. 1-4; col.7 line 55-60").

Re claims 26-28 with respect to a method have been analyzed and rejected with respect to claim 5-7 respectively.

4. Claim 36, 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pompei ("US 2001/0007591 A1").

Re claim 36, Pompei disclose of a system, comprising:

a receiver configured to receive information representative of

at least one audio signal; and a directed acoustic sound system

including: a modulated signal generator configured to generate

an ultrasonic carrier signal modulated with the at least one

audio signal; a driver amplifier configured to amplify the

modulated ultrasonic carrier signal; and at least one

directional loudspeaker, the directional loudspeaker including

at least one acoustic transducer configured to receive the

modulated ultrasonic carrier signal amplified by the driver

amplifier, and to project a sound beam representing the modulated ultrasonic carrier signal through a propagation medium along a pre-selected path to reproduce the at least one audio signal along at least a portion of the path (see claim 1 rejection analysis).

However, Pompei fail to disclose of the system comprising a telephone system. But, official notice is taken having the system comprising a telephone system is well known in the art. Thus, it would have been obvious for one of the ordinary skill in the art to have modified Pompei with the system comprising a telephone system for enabling the users to communicate via two-way voice enable device.

Re claim 41 has been analyzed and rejected with respect to claim 36.

5. Claims 4, 10-11, 13, 25. 32 & 34; 37 & 39; 42 & 44; 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pompei ("US2001/0007591 A1") and further in view of Norris al.("US 6,229,899 B1").

Re claim 10, the system of claim 1, However, Pompei never limit the system to be selected from the group consisting of a

television, a radio, an audio tape player, a phonograph, a compact disk player, a digital video disk player, a laser disk player, a video game, a desktop computer, a laptop computer, and an MP3 system. But, Norris et al. disclose of a system wherein the system to be selected from the group consisting of a television (fig.1; col.1 line 25-60). Thus, taking the combined teaching of Pompei and Norris et al. as a whole, it would be obvious for one of the ordinary skill in the art to have modified Pompei wherein the specific of having the system to be selected from the group consisting of a television for creating multiple virtual sources for creating sound effects with Action scenes.

the combined teaching of Pompei and Norris et al. as a whole, further disclose of the wherein the directional loudspeaker is configured to direct the sound beam along the preselected path toward a user of the system (par [0008,0035]/focusing/steerable sound/sound to be directed at selected position area), But, the combined teaching of Pompei and Norris et al. as a whole, fail to disclose of the specific wherein direct sound, thereby preventing individual other than the system user from hearing sound produced by the system. But, it is noted the concept of the specific wherein direct sound,

thereby preventing individual other than the system user from hearing sound produced by the system is simply the inventor's need. Thus, it would have been obvious for one of the ordinary skill in the art to have modified the combined teaching of Pompei and Norris et al. as a whole, with the specific wherein direct sound, thereby preventing individual other than the system user from hearing sound produced by the system for producing optimal sound to the selected user.

Re claim 11, the system of claim 1, but, Pompei fail to disclose of the specific wherein further including a second amplifier and at least one non- directional loudspeaker, the second amplifier being configured to amplify one or more audio signals corresponding to at least one of the audio channels and to drive at least one non-directional loudspeaker; wherein the modulated signal generator is connected in-line with the second amplifier; wherein the modulated signal generator is configured to selectably generate the ultrasonic carrier signal modulated with the at least one of the audio signals; and wherein the second amplifier is configured to selectably amplify the one or more audio signals, thereby allowing the directional loudspeaker and the non-directional loudspeaker to selectably reproduce the

audio signals. But, Norris et al. disclose of a similar system wherein having including a second amplifier and at least one non-directional loudspeaker, the second amplifier being configured to amplify one or more audio signals corresponding to at least one of the audio channels and to drive at least one non-directional loudspeaker; wherein the modulated signal generator is connected in-line with the second amplifier; wherein the modulated signal generator is configured to selectably generate the ultrasonic carrier signal modulated with the at least one of the audio signals; and wherein the second amplifier is configured to selectably amplify the one or more audio signals, thereby allowing the directional loudspeaker and the non-directional loudspeaker to selectably reproduce the audio signals (fig.1 wt (30)/conventional non-directional; fig.1 (20-22); col.4 line 25-60; col.6 line 5-17/inherently speaker associated with amplifier for sound and all interconnected).

Thus, taking the combined teaching of Pompei and Norris et al. as a whole, it would be obvious for one of the ordinary skill in the art to have modified Pompei wherein having including a second amplifier and at least one non- directional loudspeaker, the second amplifier being configured to amplify one or more audio signals corresponding to at least one of the audio

channels and to drive at least one non-directional loudspeaker; wherein the modulated signal generator is connected in-line with the second amplifier, wherein the modulated signal generator is configured to selectably generate the ultrasonic carrier signal modulated with the at least one of the audio signals; and wherein the second amplifier is configured to selectably amplify the one or more audio signals, thereby allowing the directional loudspeaker and the non-directional loudspeaker to selectably reproduce the audio signals for generating sound as perceived from the sound source.

Re claim 13, the system of claim ii wherein the modulated signal generator is configured to receive the at least one audio channel and to provide a representation of the at least one audio channel to the second amplifier (fig.2 wt (30)).

Re claim 32 & 34, 37 & 39, 42 & 44 similarly, have been analyzed and rejected with respect to claim 11 & 13 respectively

Re claim 31 with respect to a method have been analyzed and rejected with respect to claim 10 respectively.

Re claim 4, the system of claim 1 wherein the audio signals correspond to a plurality of audio channels, the plurality of audio channels being selected from the group consisting of a first channel, a second audio channel, a third audio channel, and a fourth audio channel ("fig.1-multiple audio channels (102-104) being generated corresponding to audio signals, signals channel being outputted at different locations by array transducers according to plurality of speakers (fig.2a); page 3[0029] line 15-20; page 3[0033] line 13-17"), and wherein the modulated signal generator is configured to combined the plurality of audio channels, and to generate the ultrasonic carrier signal modulated with the combined audio channels (fig.1 (110,112-4); page 2[0022] line 11-16), However, Pompei fail to explicitly disclosed the plurality of channel consisting to a first location in front of a user of the system, a second location in back of the system user, a third location to the left of the system user, to a fourth location to the right of the system user, But, Norris et al. disclose of a system wherein similar concept of having the plurality of channel consisting to a first location in front of a user of the system, a second location in back of the system user, a third location to the left of the system user, to a fourth location to the right of

the system user (fig.1). thus, taking the combined teaching of Pompei and Norris et al. as a whole, it would have been obvious for one of the ordinary skill in the art to have modified Pompeiw with the wherein similar concept of having the plurality of channel consisting to a first location in front of a user of the system, a second location in back of the system user, a third location to the left of the system user, to a fourth location to the right of the system user for creating surround action scene effect around the user.

Re claims 25 with respect to a method have been analyzed and rejected with respect to claim 4 respectively.

6. Claims 15, 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pompei ("US2001/0007591 A1").

Re claim 15, Pompei disclose the system of claim 1 with the modulated signal generator, However, He fail to disclose the modulated signal generator includes an independent volume control. However, it is noted the concept of wherein the specific of modulated signal generator includes an independent volume control is simply the designer's need. Thus, it would

have been obvious for one of the ordinary skill in the art to have modified Pompei with the specific of modulated signal generator includes an independent volume control for enabling the user to control the directional speakers.

Re claim 20, the system of claim 1, However, Pompei fail to disclose of the further including a swing-arm assembly to mount the directional loudspeaker to a ceiling, a floor, or a wall. However, it is noted the concept of having a swing-arm assembly to mount the directional loudspeaker to a ceiling, a floor, or a wall is simply the designer's need, thus it would have been obvious for one of the ordinary skill in the art to have incorporated such any of the swing-arm assembly to mount the directional loudspeaker to a ceiling, a floor, or a wall for positioning the speaker for providing optimum sound directions toward the user.

Pompei further disclose of the directing of the projected sound beam along the preselected path (par [0004,0008]).

Re claim 21, the system of claim 1 further including a clamp assembly configured to mount the directional loudspeaker to a ceiling, a floor, or a wall, and to direct of the projected

sound beam along the pre-selected path (see calim 20 rejection analysis).

7. Claims 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pompei ("US 2001/0007591 A1") and further in view of Andrews et al. (7,181,023 B1).

Re claim 16, Pompei discloses the system of claim 1, However, he fail to disclose the system further including a remote signal receiver and a remote control device configured to generate remote signals in response to a user input, wherein the remote signal receiver is configured to receive the remote signals and generate control signals for controlling a system characteristic selected from the group consisting of a volume setting, a tone setting, and an output switch selection. But, Andrews et al. discloses a system which include a remote signal receiver and a remote control device configured to generate remote signals in response to a user input, wherein the remote signal receiver is configured to receive the remote signals and generate control signals for controlling a system characteristic selected from the group consisting of a volume setting, a tone setting, and an output switch selection ("fig.1-2" (17); col.1 line 25-35. Thus, taking the combined teaching of Pompei and Andrews et al. as a whole, it would have been obvious for one of ordinary skill in the art to modify Pompei by incorporating the remote signal receiver and a remote control device configured to generate remote signals in response to a user input, wherein the remote signal receiver is configured to receive the remote signals and generate control signals for controlling a system characteristic selected from the group consisting of a volume setting, a tone setting, and an output switch selection for the purpose of controlling the distance from distance away in the room.

Re claim 17, the system of claim 16 wherein the remote control device is selected from the group consisting of an optical remote control device, an acoustic remote control device, an infrared remote control device, and a radio frequency remote control device ("fig.1/17/sound").

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Disler Paul whose telephone number is 571-272-2222. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. P./ Examiner, Art Unit 2614

/Vivian Chin/ Supervisory Patent Examiner, Art Unit 2614